

CLAIMS

The invention claimed is:

1. A device comprising:
 - a network interface for coupling to a network; and
 - a processor coupled with the network interface, wherein the processor is adapted to
 - transmit a call setup message to a device through a network to establish a connection session for exchanging data;
 - receive from the device a reply message;
 - analyze the reply message;
 - infer from the reply message an attribute of the device for the connection session that is not included in the reply message; and
 - transmit data to the device using the inferred attribute.
2. The device of claim 1, wherein the inferred attribute is a codec type of the device.
3. The device of claim 1, wherein the inferred attribute is a maximum bandwidth that the device may receive data in.
4. The device of claim 1, wherein
 - the reply message includes an identifying number of a port that the device will be using to transmit data from, and
 - the inferred attribute is the port number that will be used by the device to receive data from, inferred as a function of the identified port number.
5. The device of claim 4, wherein the inferred port number is the same as the identified port number.
6. The device of claim 1, wherein the call setup message is an H.323 version 3 fastStart type message; and

the reply message is an RSVP Path type message.

7. The device of claim 1, wherein the processor is further adapted to:
4 decide that information about the attribute will not be forthcoming prior to inferring.
8. The device of claim 7, wherein
8 deciding is performed by determining that the reply message was received before information about the attribute was received.
9. The device of claim 7, wherein
12 the call setup message is an H.323 version 3 fastStart type message; and the reply message is an RSVP Path type message.
10. A device comprising:
16 a network interface for coupling to a network; and
a processor coupled with the network interface, wherein the processor is adapted to
receive a call setup message from a device through a network to establish a
20 connection for exchanging data;
configure a first port to transmit data through, during the connection;
configure a second port to receive data from, during the connection;
transmit to the device a reply message identifying the first port as a port to
24 transmit from, but not identifying the second port; and
receive data addressed to the second port in response to the reply message.
11. The method of claim 10, wherein
28 an identifying number of the second port has a preset relationship with an identifying number of the first port.
12. The method of claim 11, wherein
32 the identifying number of the second port equals the identifying number of the first port.

13. The device of claim 10, wherein
the call setup message is an H.323 version 3 fastStart type message; and
the reply message is an RSVP Path type message.

14. A device comprising:
means for transmitting a call setup message to a device through a network to
establish a connection session for exchanging data;

means for receiving from the device a reply message;

means for analyzing the reply message;

means for inferring from the reply message an attribute of the device for the
connection session that is not included in the reply message; and

means for transmitting data to the device using the inferred attribute.

15. The device of claim 14, wherein
the inferred attribute is a codec type of the device.

16. The device of claim 14, wherein
the inferred attribute is a maximum bandwidth that the device may receive
data in.

17. The device of claim 14, wherein
the reply message includes an identifying number of a port that the device will
be using to transmit data from, and

the inferred attribute is the port number that will be used by the device to
receive data from, inferred as a function of the identified port number.

18. The device of claim 17, wherein
the inferred port number is the same as the identified port number.

19. The device of claim 14, wherein
the call setup message is an H.323 version 3 fastStart type message; and
the reply message is an RSVP Path type message.

20. The device of claim 19, further comprising:

means for deciding that information about the attribute will not be forthcoming prior to inferring.

- 4 21. The device of claim 20, wherein
deciding is performed by determining that the reply message was received
before information about the attribute was received.
- 8 22. The device of claim 20, wherein
the call setup message is an H.323 version 3 fastStart type message; and
the reply message is an RSVP Path type message.
- 12 23. A device comprising:
means for receiving a call setup message from a device through a network to
establish a connection for exchanging data;
means to configure a first port to transmit data through, during the connection;
16 means to configure a second port to receive data from, during the connection;
means to transmit to the device a reply message identifying the first port as a
port to transmit from, but not identifying the second port; and
means to receive data addressed to the second port in response to the reply
20 message.
24. The method of claim 23, wherein
an identifying number of the second port has a preset relationship with an
24 identifying number of the first port.
25. The method of claim 24, wherein
the identifying number of the second port equals the identifying number of the
28 first port.
26. The device of claim 23, wherein
the call setup message is an H.323 version 3 fastStart type message; and
32 the reply message is an RSVP Path type message.

27. An article comprising: a storage medium, the storage medium having instructions stored thereon, wherein when the instructions are executed by at least one device, they result in:

4 transmitting a call setup message to a device through a network to establish a connection session for exchanging data;

receiving from the device a reply message;

analyzing the reply message;

8 inferring from the reply message an attribute of the device for the connection session that is not included in the reply message; and

transmitting data to the device using the inferred attribute.

12 28. The device of claim 27, wherein the inferred attribute is a codec type of the device.

29. The device of claim 27, wherein
16 the inferred attribute is a maximum bandwidth that the device may receive data in.

30. The device of claim 27, wherein
20 the reply message includes an identifying number of a port that the device will be using to transmit data from, and the inferred attribute is the port number that will be used by the device to receive data from, inferred as a function of the identified port number.

24 31. The device of claim 30, wherein the inferred port number is the same as the identified port number.

28 32. The article of claim 27, wherein the call setup message is an H.323 version 3 fastStart type message; and the reply message is an RSVP Path type message.

32 33. The article of claim 27, wherein the instructions further result in: deciding that information about the attribute will not be forthcoming prior to inferring.

34. The article of claim 33, wherein
deciding is performed by determining that the reply message was received
4 before information about the attribute was received.

35. The article of claim 33, wherein
the call setup message is an H.323 version 3 fastStart type message; and
8 the reply message is an RSVP Path type message.

36. An article comprising: a storage medium, the storage medium having
instructions stored thereon, wherein when the instructions are executed by at least one
12 device, they result in:

receiving a call setup message from a device through a network to establish a
connection for exchanging data;
configuring a first port to transmit data through, during the connection;
16 configuring a second port to receive data from, during the connection;
transmitting to the device a reply message identifying the first port as a port to
transmit from, but not identifying the second port; and
receiving data addressed to the second port in response to the reply message.

37. The method of claim 36, wherein
an identifying number of the second port has a preset relationship with an
identifying number of the first port.

38. The method of claim 37, wherein
the identifying number of the second port equals the identifying number of the
first port.

39. The article of claim 36, wherein
the call setup message is an H.323 version 3 fastStart type message; and
the reply message is an RSVP Path type message.

40. A method comprising:

transmitting a call setup message to a device through a network to establish a connection session for exchanging data;

receiving from the device a reply message;

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analyzing the reply message;

inferring from the reply message an attribute of the device for the connection session that is not included in the reply message; and

transmitting data to the device using the inferred attribute.

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41. The device of claim 40, wherein
the inferred attribute is a codec type of the device.

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42. The device of claim 40, wherein
the inferred attribute is a maximum bandwidth that the device may receive data in.

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43. The device of claim 40, wherein
the reply message includes an identifying number of a port that the device will be using to transmit data from, and

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the inferred attribute is the port number that will be used by the device to receive data from, inferred as a function of the identified port number.

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44. The device of claim 43, wherein
the inferred port number is the same as the identified port number.

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45. The method of claim 40, wherein
the call setup message is an H.323 version 3 fastStart type message; and
the reply message is an RSVP Path type message.

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46. The method of claim 40, further comprising:
deciding that information about the attribute will not be forthcoming prior to inferring.

47. The method of claim 46, wherein

deciding is performed by determining that the reply message was received before information about the attribute was received.

- 4 48. The method of claim 46, wherein
the call setup message is an H.323 version 3 fastStart type message; and
the reply message is an RSVP Path type message.
- 8 49. A method comprising:
receiving a call setup message from a device through a network to establish a
connection for exchanging data;
12 configuring a first port to transmit data through, during the connection;
configuring a second port to receive data from, during the connection;
transmitting to the device a reply message identifying the first port as a port to
transmit from, but not identifying the second port; and
receiving data addressed to the second port in response to the reply message.
- 16 50. The method of claim 49, wherein
an identifying number of the second port has a preset relationship with an
identifying number of the first port.
- 20 51. The method of claim 50, wherein
the identifying number of the second port equals the identifying number of the
first port.
- 24 52. The method of claim 49, wherein
the call setup message is an H.323 version 3 fastStart type message; and
the reply message is an RSVP Path type message.
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